

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A method for dynamically generating a printer model database through print job analysis, the method comprising:

using a printer model database generation application to dynamically generate a plurality of ~~base sequence~~ test print jobs for delivery to a first printer driver;

using a printer model database generation post-spooling process to capture the test print jobs as output by the first printer driver;

exchanging test sequence information between the printer model database generation application and the printer model database generation post-spooling process, wherein the test sequence information is associated with the plurality of test print jobs;

archiving the test print jobs; and

using the printer model database generation application to perform an analysis process comparing differences between the plurality of test print jobs as output by the first printer driver to generate a printer model database entry for the first printer driver.

2. (currently amended) The method as recited in claim 1, wherein ~~the step for using~~ a printer model database generation application to dynamically generate a plurality of base sequence test print jobs ~~comprises automatically generating the a first test print job when the first~~ test print job corresponds to an option that is printer driver independent.

3. (currently amended) The method as recited in claim 2, wherein ~~the step for~~ automatically generating the first test print job when the first test print job corresponds to an option that is printer driver independent comprises at least one of ~~the steps for~~:

- (i) specifying one or more device independent print options
- (ii) specifying one or more device independent option settings.

4. (original) The method as recited in claim 2, wherein the option corresponds to at least one of:

- (i) a number of copies to be rendered;
- (ii) a copy collation process;
- (iii) a duplex printing process;
- (iv) an order for rendering pages of the print job;
- (v) an orientation for rendering a page of the print job;
- (vi) a size of paper to be used to render the print job;
- (vii) a paper source to be used to render the print job;
- (viii) a paper type to be used to render the print job;
- (ix) a booklet rendering process; and
- (x) an N-up printing process.

5. (currently amended) A method as recited in claim 2, further comprising:

obtaining a default initialized structure from a printer driver;  
updating the structure according to the option; and  
generating the first test print job using the updated structure.

6. (currently amended) The method as recited in claim 1, wherein ~~the step for using~~ a printer model database generation application to dynamically generate a plurality of base sequence test print jobs comprises semi-automatically generating ~~the a first test print job~~ when the first test print job corresponds to at least one of:

- (i) an option that is printer driver dependent; and
- (ii) an option setting that is printer driver dependent.

7. (currently amended) A method as recited in claim 6, wherein ~~the step for semi-~~ automatically generating the first test print job comprises ~~a step for using~~ the printer model database generation application to initiate user interaction.

8. (currently amended) A method as recited in claim 7, wherein ~~the step for semi-~~ automatically generating the first test print job further comprises ~~steps for~~:

receiving user input relating to at least one of (i) the option and (ii) the option setting;

cataloging at least one of (i) the option and (ii) the option setting; and

electronically constructing the first test print job.

9. (currently amended) A method as recited in claim 8, wherein ~~the step for~~ electronically constructing the first test print job comprises ~~the steps for~~:

displaying any standard options and printer driver independent settings;

obtaining from the user any input relating to additional settings; and

initiating the first test print job.

10. (currently amended) A method as recited in claim 8, wherein ~~the step for~~ electronically constructing the first test print job comprises ~~the steps for~~:

prompting the user for any proprietary options; and

obtaining from the user any input relating to the proprietary options.

11. (currently amended) A method as recited in claim 1, wherein ~~the step for~~ using a printer model generation post-spooling process to capture the test print jobs as output by the first printer driver is performed by at least one of:

(i) a print processor;

(ii) a print spooler;

(iii) a port monitor;

(iv) a print assist; and

(v) a print server.

12. (original) A system configured to dynamically generating a printer model database through print job analysis, the system comprising:

a computer device comprising:

a processing system;

a print subsystem;

a printer model database generation application configured to dynamically generate a ~~base sequence~~ plurality of test print jobs, to send the plurality of test print jobs to a first printer driver, and to perform an analysis process to generate a printer model database entry based on differences between the plurality of generated test print jobs sent to the first printer driver; and

a printer model database generation post-spooling process configured to capture the plurality of test print jobs as output by the first printer driver; and  
a printer device configured to render a print job; and  
a communication mechanism coupled to the computer device and to the printer device.

13. (original) The system method as recited in claim 12, wherein the print subsystem comprises at least one of:

- (i) a printer driver;
- (ii) a print assist;
- (iii) a spooler; and
- (iv) a print processor.

14. (currently amended) The system as recited in claim 13, wherein the printer model database generation application is configured to automatically generate ~~the~~ a first test print job when the first test print job corresponds to a printer driver independent option and to semi-automatically generate ~~the~~ a second test print job when the second test print job corresponds to at least one of (i) a printer driver dependent option and (ii) a printer driver dependent option setting.

15. (original) The system as recited in claim 13, wherein the printer model generation post-spooling process is performed by at least one of:

- (i) the print processor;
- (ii) the printer driver;
- (iii) the print assist;

- (iv) the spooler; and
- (v) a print server coupled to the communication mechanism, wherein the communication mechanism is a network.

16. (currently amended) A ~~computer program product for implementing within a computer system a method for dynamically generating a printer model database through print job analysis, the computer program product comprising:~~ a computer readable medium for providing storing computer program code means utilized to implement the a method for dynamically generating a printer model database through print job analysis, wherein the computer program code means is comprised of executable code for implementing ~~the steps for:~~

using a printer model database generation application to dynamically generate a plurality of base sequence test print jobs for delivery to a first printer device;

using a printer model database generation post-spooling process to capture the test print jobs as output by the first printer device;

exchanging test sequence information between the printer model database generation application and the printer model database generation post-spooling process, wherein the test sequence information is associated with the plurality of test print jobs;

archiving the test print jobs; and

using the printer model database generation application to perform an analysis process comparing differences between the plurality of test print jobs as output by the first printer driver to generate a printer model database entry for the first printer driver.

17. (currently amended) A computer ~~program product~~ readable medium as recited in claim 16, wherein ~~the step for~~ using a printer model database generation application to

dynamically generate ~~a base sequence~~ the plurality of test print jobs comprises automatically generating ~~the a first~~ test print job when the first test print job corresponds to an option that is printer driver independent.

18. (currently amended) A ~~method~~ computer readable medium as recited in claim 17, wherein the computer program code means further comprising comprises executable code for implementing:

obtaining a default initialized structure from a printer driver;

updating the structure according to the option; and

generating the first test print job using the updated structure.

19. (currently amended) A ~~method~~ computer readable medium as recited in claim 16, wherein ~~the step for~~ using a printer model database generation application to dynamically generate ~~a base sequence~~ the plurality of test print jobs comprises:

using the printer model database generation application to initiate user interaction;

receiving user input relating to at least one of (i) a printer driver dependent option and (ii) a printer driver dependant option setting;

cataloging at least one of (i) the printer driver dependent option and (ii) the printer driver dependent option setting; and

electronically constructing ~~the a first~~ test print job.

20. (currently amended) A computer ~~program product~~ readable medium as recited in claim 16, wherein the computer program code means further comprising comprises executable code for implementing a step for employing a print component to perform ~~the step for~~ using a

printer model generation post-spooling process to capture the plurality of test print jobs, wherein the print component is one of:

- (i) a print processor;
- (ii) a printer driver;
- (iii) a print assist;
- (iv) a spooler; and
- (v) a print server.

21. (currently amended) A method for determining an imaging device command, the method comprising:

generating a base sequence test print job;

capturing output information for the base sequence test print job from a first printer driver;

generating a command specific print job wherein one option is configured differently than in the base sequence test print job;

capturing driver output for the command specific print job from the first printer driver; and

comparing the driver output for the command specific print job and the output information for the base sequence test print job to determine the imaging device command for communicating the one option.

22. (currently amended) A method for creating an imaging device command database, the method comprising:

generating a base sequence test imaging device job;



capturing output information for said base sequence test imaging device job from a first printer driver;

generating a command specific imaging device job wherein at least one option is configured differently than in said base sequence test imaging device job;

capturing command specific driver output for said command specific imaging device job from the first printer driver; and

storing at least one difference between said output information and said command specific driver output as an imaging device command in an imaging device command database.

23. (new) A method for dynamically generating a printer model database through print job analysis, the method comprising:

using a printer model database generation application to automatically and dynamically generate a base sequence test print job when the test print job corresponds to an option that is printer driver independent comprising:

obtaining a default initialized structure from a printer driver;

updating the structure according to the option; and

generating the print job using the updated structure;

using a printer model database generation post-spooling process to capture the test print job;

exchanging test sequence information between the printer model database generation application and the printer model database generation post-spooling process, wherein the test sequence information is associated with the test print job;

archiving the test print job; and

using the printer model database generation application to perform an analysis process to generate a printer model database entry.

24. (new) A computer readable medium storing computer program code means utilized to implement a method for dynamically generating a printer model database through print job analysis, wherein the computer program code means is comprised of executable code for implementing:

using a printer model database generation application to automatically and dynamically generate a base sequence test print job when the test print job corresponds to an option that is printer driver independent comprising:

obtaining a default initialized structure from a printer driver;

updating the structure according to the option; and

generating the print job using the updated structure;

using a printer model database generation post-spooling process to capture the test print job;

exchanging test sequence information between the printer model database generation application and the printer model database generation post-spooling process, wherein the test sequence information is associated with the test print job;

archiving the test print job; and

using the printer model database generation application to perform an analysis process to generate a printer model database entry.